Beaconhouse School System

Boys Campus, Canal Side
P1 Work Sheet#1

1 Write down the mathematical name for

(a) an angle which is less than 90°, _____
(b) a polygon with 5 sides, _____
(c) a quadrilateral with exactly one pair of parallel sides _____

2 hexagon perpendicular isosceles
regular congruent

Put a ring around the word that describes two polygons that are the same shape and size.

3 (a) Write **180** as the product of its prime factors.

(b) At a bus stop
• a red bus arrives every 18 minutes
and
• a blue bus arrives every 24 minutes.
At 10 47 a red bus and a blue bus arrive.
Find the next time when a red bus and a blue bus arrive together.

4 **(a)** Change 4.37 litres into cubic centimetres. _____

(b) A circle has a circumference of 56π mm.
Work out the radius of this circle in centimeter. _____

5 (a) Write 97.4236 correct to 3 decimal places _____

(b) Write down the reciprocal of 12. _____

6 Expand the brackets and simplify. $\mathbf{4}(\boldsymbol{2m}+\mathbf{3})-\mathbf{5}(\boldsymbol{m}-\mathbf{2})$ _____

7 Ramond walks **2460** metres in **33** minutes.
Work out Ramond's average speed in kilometres per hour. _____

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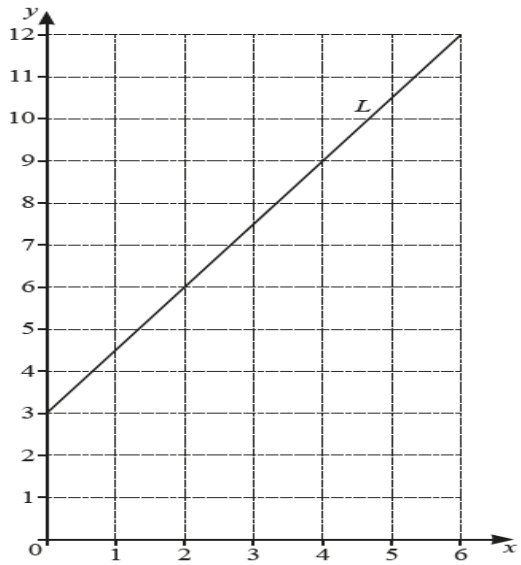
8 **(a)** Calculate $\frac{12}{\sqrt[3]{27}}$ _____

(b) Evaluate 0.12×0.7 _____

9 **from the given figure:**



(a) Write down the gradient of the line L.

(b) Write down the Y-intercept of line L.

(c) Write down the equation of line L.
In the form $y = mx + c$

10 Calculate the value of A when $b = 3$ and $c = 6$.

$$A = \frac{1}{4} b c^2$$

11 **(a)** Write down any ir-rational number 'x' such that $7 < x < 8$ _____

(b) By writing each number correct to 1 significant figure, Estimate the value of

37.41×13.02 _____

12 **(a)** Write down the value of the **7** in the number **570 296** _____

(b) Simplify the surds $\sqrt{3} \times \sqrt{6}$ _____

13 **(a)** Simplify $3 \div 9 \times 3$ _____

(b) Find the smallest possible value of 'm' such that $12m$ becomes a perfect square. _____

(c) Evaluate $\sqrt{3 \times 3 - 1(-7)}$ _____

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